

## **AMENDMENTS TO THE CLAIMS**

*This listing of claims replaces all prior versions and listings of claims in the application.*

### **Listing of claims:**

1. (Original) Process for the production of hydrocarbon from a fermentation liquid comprising:

- forming said hydrocarbon from said fermentation liquid using a biocatalyst;
- contacting said fermentation liquid with a solvent impregnated porous carrier, which solvent impregnated porous carrier has a density that is different from said fermentation liquid, whereby said formed hydrocarbon is sorbed by said solvent impregnated carrier;
- regenerating said solvent impregnated carrier, whereby a stream of said hydrocarbon is obtained; and
- optionally, recycling said regenerated solvent impregnated carrier.

2. (Original) Process according to claim 1, wherein said solvent impregnated carrier comprises a polymeric carrier.

3. (Currently Amended) Process according to claim 2, wherein said polymeric carrier comprises one or more ~~components selected from~~ polystyrene, polypropylene, polytetrafluoroethylene, silicone, polyethylene, or and (regenerated) cellulose group, which is are optionally crosslinked.

4. (Original) Process according to claim 1, wherein said solvent impregnated carrier comprises an inorganic carrier, preferably selected from silica, alumina, aluminosilicates and combinations thereof.

5. (Previously Presented) Process according to claim 1, wherein said regeneration is carried out by using steam, by back-extraction, by heating, or by combinations thereof.

6. (Previously Presented): Process according to claim 1, wherein said product hydrocarbon is 4-hydroxybenzoic acid, benzaldehyde, or a mixture thereof.

7. (Previously Presented): Process according to claim 1, wherein said biocatalyst is selected from *Pseudomonas putida*, *Escherichia coli*, *Saccharomyces cerevisiae*, *Lactobacillus* species, *Aspergillus niger*.

8. (Previously Presented): Process according to claim 1, wherein;

- said solvent impregnated carriers are inserted essentially at or near the bottom of a fermentor containing said fermentation liquid and are collected essentially at or near the top of said fermentor, wherein said solvent impregnated carriers have a density that is lower than that of said fermentation liquid; or
- said solvent impregnated carriers are inserted essentially at or near the top of a fermentor containing said fermentation liquid and are collected essentially at or near the bottom of said fermentor, wherein said solvent impregnated carriers have a density that is higher than that of said fermentation liquid.

9. (Previously Presented) Process according to claim 1, which is carried out continuously.

10. (Previously Presented) Process according to claim 1, wherein said porous solvent impregnated carrier has an average pore diameter of from 2.5 nm to 50  $\mu$ m.

11. (Previously Presented) Process according to claim 1, wherein the porosity is from 30 to 80%.